Application No.: 10/809,896

## AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A ruthenic acid nanosheet having a thickness of <u>not more than 1</u> nm or smaller, represented by the formula (1):

## $[RuO_{2+0.5x}]^{x}$ , wherein $0 \le x \le 1$ .

- 2. (Cancelled)
- 3. (Currently amended) A layered ruthenic acid compound comprising a layered structure of the ruthenic acid nanosheets in accordance with claim 1 [[or 2]].

said layered ruthenic acid compound having an X-ray diffraction peak intensity at a (00L) plane (L = 1 to n when  $0 \le 6(CuK\alpha) \le 90^{\circ}$ , n is determined depending on a basal interplanar spacing and  $5 \le n \le 35$ ).

- 4. (Cancelled)
- 5. (Currently amended) A colloidal ruthenic acid compound containing the ruthenic acid nanosheet in accordance with claim 1 and/or the layered ruthenic acid compound in accordance with claim 3 and a solvent.
- 6. (Original) An electrochemical device having an electrode comprising the ruthenic acid nanosheet in accordance with claim 1.

## Application No.: 10/809,896

- 7. (Currently amended) A method of producing a ruthenic acid nanosheet comprising the steps of:
- (a) mixing ruthenium oxide and an alkali metal compound and sintering or melting the resulting mixture to obtain a layered alkaline alkali metal-ruthenate compound containing a ruthenic acid nanosheet having a thickness of not more than 1 nm or smaller;
- (b) treating said layered alkali metal-ruthenate compound in an acidic solution to exchange at least part of alkali metal with proton to obtain a protonic layered ruthenic acid hydrate;
- (c) reacting said protonic layered ruthenic acid hydrate with alkylammonium or alkylamine to obtain a layered alkylammonium-ruthenic acid intercalation compound; and
- (d) mixing said layered alkylammonium-ruthenic acid intercalation compound with a solvent to obtain a colloid containing a ruthenic acid nanosheet having a thickness of not more than 1 nm or smaller.
- 8. (Original) A method of producing the ruthenic acid nanosheet in accordance with claim 7, wherein ruthenium oxide and alkali metal salt are mixed and the resulting mixture is sintered at 700-900 ℃ in the step (a).
- 9. (Original) A method of producing the ruthenic acid nanosheet in accordance with claim 7, wherein ruthenium oxide and alkali metal hydroxide are mixed and the resulting mixture is melted at 500-700 °C in the step (a).

## Application No.: 10/809,896

- 10. (Original) A method of producing the ruthenic acid nanoshect in accordance with claim 7, wherein said protonic layered ruthenic acid hydrate is reacted with alkylammonium represented by  $(R)_mNH_{4-m}$  or  $(R)_{m-p}(R')_pNH_{4-m}$  (where R and R' are  $CH_3(CH_2)_q$ , respectively, m = 0 to 4, p = 0 to 3 and q = 0 to 18) in the step (c).
- 11. (Original) A method of producing the ruthenic acid nanosheet in accordance with claim 7, wherein said protonic layered ruthenic acid hydrate is reacted with alkylamine represented by  $(R)_mNH_{3-m}$  or  $(R)_{m-p}(R')_pNIf_{3-m}$  (where R and R' arc  $CH_3(CH_2)_q$ , respectively, m = 0 to 3, p = 0 to 2 and q = 0 to 18) in the step (c).
- 12. (Original) A method of producing the ruthenic acid nanosheet in accordance with claim 7, wherein said layered alkylammonium-ruthenic acid intercalation compound is mixed with at least one solvent selected from the group consisting of water, alcohol, acetonitrile, dimethyl sulfoxide, dimethylformamide and propylene carbonate to obtain a colloid in the step (d).
- 13. (New) A colloidal ruthenic acid compound containing the layered ruthenic acid compound in accordance with claim 3 and a solvent.